

39 Series | PLASTIMATT

TECHNICAL DATA SHEET

SOLVENT

SCREEN INK

Product Statement and Key Features:

AFFORD 39 Series are a range of solvent based screen printing inks for self adhesive vinyls for the display and retail graphics markets.

39 SERIES produce a matt finish ink. The inks jet dry at low temperatures.

39 SERIES have excellent screen stability and self solvency and exhibit very good flexibility combined with consistent good adhesion to self adhesive PVC and a range of similar display graphic plastic materials. Prints also have a high degree of chemical and resistance and when used on appropriate approved materials are suitable for exterior applications.

Recommended applications:

Suitable for the production of self adhesive PVC graphic displays, self adhesive decals, and substrate dependant, suitable for outdoor applications.

Finish: Matt.

Printing and Drying Information:

Mesh selection is critical for optimum results. Meshes in the range 90-140 T/cm are recommended and specifically for fine detail print 140T/cm would be the best choice; image type and fabric will also dictate the most appropriate mesh grade. Please consult with AFFORD technical services for further guidance.

Most stencil types are suitable, but 11.701 diazo emulsion stencils with meshes ranging from 90-140T/cm meshes are recommended (see above).

Drying times below are only approximate as drying properties depend on various factors, such as mesh grade, ink film thickness and local print environment conditions including temperature and humidity, please consult with AFFORD technical services for further guidance.

39 Series inks can be adjusted for on press viscosity with D-200 for standard and fast dry requirements, and with D-696 for slower drying needs.

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Recommended Drying:

39 Series inks rapidly jet dry in 15-20 seconds at 55-65°C and will air dry in around 8-15 minutes in ambient conditions of +/-20°C.

It is essential that the printed ink film is given time to fully dry to ensure full performance is achieved and it is the user's responsibility to confirm the drying schedule by testing resistance properties and suitability prior to commencing a full production run.

Certain plastic materials may be impregnated with lubricants that like plasticisers can migrate to the surface impairing adhesion, block resistance and functional performance, often a considerable time after printing, other plastics may embrittle over time and therefore pre-production testing is required to minimise the risk of future print failure.

Storage:

39 Series inks and additives should be stored at temperatures between 10-25°C with a relative humidity between 30 to 70%.

Safety Information Handling Instructions & Shelf Life:

Ink and cleaning solutions should always be kept away from heat, sparks, and flames. If stored or transported at a different temperature, the ink should be allowed to reach room temperature before calibration or printing. This may have an adverse effect on performance and will affect any warranties given by AFFORD Industrial.

Recommended shelf life of this product is 24 months from the date of manufacture when stored under preferred conditions.

Colour Range Table:

39.000 BASE TRANSPARENTE	39.400 ROJO BASE	39.670 AZUL REAL
39.110 BLANCO MATE	39.420 ROJO VIVO MATE	39.700 VIOLETA
39.111 PLATA MATE	39.439 ROJO FUEGO MATE	39.710 PURPURA
39.213 AMARILLO MEDIO	39.440 CARMIN	39.800 VERDE PERMANENTE
39.214 AMARILLO ROJIZO	39.500 MAGENTA	39.810 VERDE MEDIO
39.222 ORO	39.510 FUCSIA MATE	39.829 VERDE ESMERALDA
39.229 AMARILLO LIMON MATE	39.600 AZUL PERMANENTE	39.900 NEGRO
39.324 NARANJA CLARO MB	39.610 AZUL MEDIO MATE	

The information provided corresponds to our knowledge today; It is given in good faith but without guarantee. In addition, taking into account the wide variety of materials to print, the various equipment and procedures to realize it is your responsibility to check the validity of our products to achieve the goals that he intends, with the means and procedures he has.

Similarly, the user must ensure compliance with current regulations, patent situation and rights of third parties where appropriate.

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Colour Range:

39 Series inks are available, in standard colours and as a four-colour process set, including Black, White and Transparent base and a range of metallic shades and fluorescent shades.

Special colour matches can be supplied on demand.

AFFORD Quality Statement:

AFFORD Industrial SL assures the quality of this product. AFFORD cannot, however, guarantee the finished results because AFFORD exercises no control over individual operating and production procedures. While technical information and advice on the use of this product is provided in good faith, the user bears sole responsibility for selecting the appropriate product for their end use requirements. Users are also responsible for testing to determine that our product will perform as expected during the printed item's entire life cycle from proofing, printing, post print processing, and shipment to end use. This product has been specially formulated for use with the printing process indicated within the technical information, and it has not been tested by any other method. Any liability associated with the use of this product is limited to the value of the product purchased from AFFORD Industrial SL.

Support:

AFFORD Industrial are a company with international sales coverage, and as such can offer technical, engineering and sales support to our customers worldwide. If you require more information regarding this product, or any of our extensive range of products for screen, pad, digital, flexo and gravure print processes, please contact your local sales representative.

Disclaimer:

All information on this data sheet is based on laboratory tests carried out by AFFORD Industrial SL and from end user experience in print shops. Procedures and directions for use of AFFORD Industrial products (including printing and after-treatment) must be considered as recommendations only, with no warranties expressed or implied. The user of the products described herein is solely responsible for determining the suitability of any AFFORD Industrial product(s) for the chosen application. AFFORD Industrial recommends that all products be pre-tested prior to full-scale production use. This data sheet supersedes all previous publications. December 2023.

12/2023

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